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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/880,506	06/13/2001	Donald K. Jones	CRD0935	5338	
27717	7590 07/18/2003				
SEYFARTH SHAW 55 EAST MONROE STREET SUITE 4200 CHICAGO, IL 60603-5803			EXAMINER		
			FERKO, KATHRYN P		
CHICAGO, II	2 00003-3803		ART UNIT	PAPER NUMBER	
			3743		
			DATE MAILED: 07/18/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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-		Application No.	Applicant(s)	Ma.			
	0.00	09/880,506	JONES ET AL.				
	Offic Action Summary	Examiner	Art Unit				
	TI	Kathryn Ferko	3743				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover shet w	nn the correspondence address	;			
THE - External after - If the - If NC - Failur - Any I	ORTENED STATUTORY PERIOD FOR REI MAILING DATE OF THIS COMMUNICATION missions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Experiod for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the may be appeared by the Office later than three months after the may be appeared by the Office later than three months.	N. t 1.136(a). In no event, however, may a reply within the statutory minimum of this id will apply and will expire SIX (6) MON atute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).	ication.			
1)⊠	Responsive to communication(s) filed on 1	<u>13 June 2001</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-final.					
3)	Since this application is in condition for all closed in accordance with the practice und			rits is			
Disposit	ion of Claims	ioi Ex parto quayro, 1000 c.	J. 11, 100 J.G. 210.				
4)⊠	Claim(s) 1-26 is/are pending in the application	tion.					
	4a) Of the above claim(s) is/are without	drawn from consideration.					
5)	Claim(s) is/are allowed.						
6)⊠	⊠ Claim(s) <u>1-26</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and	d/or election requirement.					
	ion Papers						
<i>,</i> —	The description is objected to by the Exam		the Eveniner				
10)	The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to						
11)	The proposed drawing correction filed on		• •				
,	If approved, corrected drawings are required in		noapprovou by the Examinet				
12)	The oath or declaration is objected to by the						
Priority (under 35 U.S.C. §§ 119 and 120						
-	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority docume	ents have been received.					
	2. Certified copies of the priority documents have been received in Application No						
* (Copies of the certified copies of the papplication from the International See the attached detailed Office action for a second control of the control o	Bureau (PCT Rule 17.2(a)).	_	е			
14) 🗌 A	Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C.	§ 119(e) (to a provisional app	lication).			
	 a) The translation of the foreign language Acknowledgment is made of a claim for dom 	•					
Attachmen	nt(s)						
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152				
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 9, 11, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Plowiecki in FR2696636.

Plowiecki discloses a method for occluding the vasculature of a patient via providing a plurality of embolic coils having a textured surface; introducing the plurality of embolic coils into the patient's vasculature, whereby the textured surface provides improved platelet adhesion compared to a non-textured surface, to promote clotting, as stated in the abstract and seen in figure 1; embolic coils that are used to reduce or block blood flow to an arterial-venous malformation or to a fistula, as seen in figure 1; a method for treating an aneurysm of a patient via providing a plurality of embolic coils having a textured surface; introducing the plurality of embolic coils into the patient's aneurysm, whereby the textured

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surface provides improved platelet adhesion compared to a non-textured surface, to promote clotting; and an embolic coil formed of wire having a textured surface which, when the embolic coil is implanted in a patient's vasculature, provides improved platelet adhesion compared to a non-textured surface to promote clotting, as stated in the abstract.

3. Claims 1, 8, 9, 11 and 21 are rejected under 35 U.S.C. 102(a and/or e) as being anticipated by Jacobsen et al. in US Patent No. 6,530,934.

Jacobsen et al. disclose a method for occluding the vasculature of a patient via providing a plurality of embolic coils having a textured surface; introducing the plurality of embolic coils into the patient's vasculature, whereby the textured surface provides improved platelet adhesion compared to a non-textured surface, to promote clotting, as recited in column 4, lines 48-65; coils that are used to embolize a vessel for vessel sacrifice, as recited in column 3, lines 55-67; embolic coils that are used to reduce or block blood flow to an arterial-venous malformation or to a fistula, as recited in column 3, lines 55-67; a method for treating an aneurysm of a patient via providing a plurality of embolic coils having a textured surface; introducing the plurality of embolic coils into the patient's aneurysm, whereby the textured surface provides improved platelet adhesion compared to a non-textured surface, to promote clotting, as recited in columns 3 and 4; and an embolic coil formed of wire and having a textured surface which, when the embolic coil is implanted in a patient's vasculature,

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provides improved platelet adhesion to a non-textured surface, to promote clotting, as recited in columns 3 and 4.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2-8, 10, 12-20 and 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable Plowiecki in FR2696636.

Plowiecki discloses the invention with the exception of explicitly reciting texturing the surface of an embolic coil by abrasion; texturing the surface of an embolic coil by sandblasting; an embolic coil that is a platinum-tungsten alloy wire; an embolic coil that includes a proximal portion and a distal portion where the proximal portion is relatively smooth and the distal portion is relatively textured; an embolic coil that has substantially uniform roughness pockets having diameters between about 0.125 microns and about 50 microns; pockets that have depths of between about 0.25 microns and about 20 microns; embolic coils are that are used to embolize a vessel for vessel sacrifice; and embolic coils that are used to block blood flow to tumor.

On the other hand, texturing the surface of an embolic coil by abrasion and texturing the surface of an embolic coil by sandblasting would be obvious to one with ordinary skill in the art as known methods to texture a surface. The

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specification of the current application does not demonstrate the criticality to abrasion or sandblasting. Therefore, to roughen the surface via abrasion or sandblasting in the claimed configuration or via any other roughening technique would have been obvious to one with ordinary skill in the art. Furthermore, it would have been obvious to one with ordinary skill in the art to modify the invention of Plowiecki to have the coil that made of platinum-tungsten alloy wire. Again, the specification of the current application does not demonstrate the criticality for a platinum-tungsten alloy wire. Therefore, the wire of Plowiecki can be considered an equivalent since the function of promoting rapid clotting is achieved. Moreover, an embolic coil that includes a proximal portion and a distal portion where the proximal portion is relatively smooth and the distal portion that is relatively textured; an embolic coil that has substantially uniform roughness pockets having diameters between about 0.125 microns and about 50 microns; pockets that have depths of between about 0.25 microns and about 20 microns; embolic coils are that are used to embolize a vessel for vessel sacrifice; and

6. Claims 2-7, 10, 12-20 and 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobsen et al. in US Patent No. 6,530,934

the invention and the roughened surface would fall in the range claimed.

Jacobsen et al. disclose the invention with the exception of explicitly reciting texturing the surface of an embolic coil by abrasion; texturing the surface of an embolic coil by sandblasting; an embolic coil that is a platinum-tungsten

embolic coils that are used to block blood flow to tumor are within the scope of

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alloy wire; an embolic coil that includes a proximal portion and a distal portion where the proximal portion is relatively smooth and the distal portion being relatively textured; an embolic coil that has substantially uniform roughness pockets having diameters between about 0.125 microns and about 50 microns; pockets that have depths of between about 0.25 microns and about 20 microns; and embolic coils that are used to block blood flow to tumor.

On the other hand, texturing the surface of an embolic coil by abrasion and texturing the surface of an embolic coil by sandblasting would be obvious to one with ordinary skill in the art as known methods to texture a surface. The specification of the current application does not demonstrate the criticality to abrasion or sandblasting. Therefore, to roughen the surface via abrasion or sandblasting in the claimed configuration or via any other roughening technique would have been obvious to one with ordinary skill in the art. Furthermore, it would have been obvious to one with ordinary skill in the art to assure the invention of Jacobsen et al. to have the coil made of platinum-tungsten alloy wire. Again, the specification of the current application does not demonstrate the criticality for a platinum-tungsten alloy wire. Jacobsen et al. disclose the use of platinum alloys in column 4, lines 30-35, wherein platinum-tungsten falls within the scope of a platinum alloy. Moreover, an embolic coil that includes a proximal portion and a distal portion where the proximal portion is relatively smooth and the distal portion is relatively textured; an embolic coil that has substantially uniform roughness pockets having diameters between about 0.125 microns and

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about 50 microns; pockets that have depths of between about 0.25 microns and about 20 microns; and embolic coils that are used to block blood flow to tumor are within the scope of the invention and the roughened surface would fall in the range claimed.

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure are as follows: US2001/0044629; US Patent No. 6,165,198; US Patent No. 5,964,797; and US Patent No. 5,960,671.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kathryn Ferko whose telephone number is (703) 306-3454. The examiner can normally be reached on M-F (7:30-5:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry A Bennett can be reached on (703) 308-0101. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

Henry Bennett Supervise wherein Examiner

KF July 14, 2003